



STIC EIC 3600

Search Request Form

Today's Date:

04/26/2004

Priority Date:

For 705 Searches list subclass:

Your Name	Mark Hellner		
AU	2653	Examiner #	64527
Room #	PK3-3D04	Phone	703 306 4155
Serial #			

Is this a Rush? YES NO
SPE's Signature _____Is this a first action amendment? YES NO Is this a refocus? YES NO

Access # _____

What is the focus of this search? Please include concepts, synonyms etc.

Attach a copy of the abstract, pertinent claims and your East search strategy. Thanks.

I need a litigation search for the
following Re issues

- ① 09/408,839 → Patent No 5,905,460
- ② 09/924,501 → Patent No 5,936,577
- ③ 09/640,794 → Patent No. 5,907,395

STIC Searcher
Date picked upPhone
Date completed

No Documents Found!

No documents were found for your search (**5936577 or 5,936,577**).
Please edit your search and try again. You may want to try one or
more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2004 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

*Patent Cases from Federal
Courts and Administrative
Materials*

No Documents Found!

No documents were found for your search (5936577 or 5,936,577). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright © 2004 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.](#)

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents [\[1\]](#)
Terms: patno=5936577 ([Edit Search](#))

953666 (08) 5936577 August 10, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5936577

◆ [GET 1st DRAWING SHEET OF 9](#)
[Access PDF of Official Patent *](#)

[Check for Patent Family Report PDF availability *](#)

* Note: A transactional charge will be incurred for downloading an Official Patent or Patent Family Report. Your acceptance of this charge occurs in a later step in your session. The transactional charge for downloading is outside of customer subscriptions; it is not included in any flat rate packages.

[Link to Claims Section](#)

August 10, 1999

Adaptive antenna

REISSUE: Reissue Application filed Aug. 9, 2001 (O.G. Jan. 15, 2002) Ex. Gp.: 3662; Re. S.N. 09/924,501, (O.G. January 15, 2002)

APPL-NO: 953666 (08)

FILED-DATE: October 17, 1997

GRANTED-DATE: August 10, 1999

CORE TERMS: beam, antenna, sector, exciting, width, adaptive, receiving antenna, transmitting antenna, station, transmission ...

ENGLISH-ABST:

Features of an adaptive antenna are a controlling portion 11 as a method for detecting the communication amount of each beam and an antenna controlling portion 7 as a controlling method for controlling the pattern of each beam corresponding to information of the detected communication amount. In particular, an exciting weight of each antenna element is controlled corresponding to the detected communication amount and thereby the pattern of each beam is controlled. Thus, the communication amounts of individual beams can be flexibly well-balanced. Consequently, the communication capacity of the base station can be effectively used.

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents [\[1\]](#)

Terms: patno=5936577 ([Edit Search](#))

View: [Custom](#)

Segments: Appl-no, English-abst, Granted-date, Reissue

Date/Time: Thursday, April 22, 2004 - 10:07 AM EDT

Query/Command : PRT SS 2 MAX 1 LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

Patent Number :

US5936577 A 19990810 [US5936577]

Title :

(A) Adaptive antenna

Patent Assignee :

(A) TOKYO SHIBAURA ELECTRIC CO (JP)

Patent Assignee :

Kabushiki Kaisha Toshiba, Kawasaki [JP]

Inventor(s) :

(A) SHOKI HIROKI (JP); MUKAI MANABU (JP); YOKOI TOKIHIKO (JP)

Application Nbr :

US95366697 19971017 [1997US-0953666]

Priority Details :

JP27624996 19961018 [1996JP-0276249]

Intl Patent Class :

(A) H01Q-003/22 H04Q-007/00

EPO ECLA Class :

H01Q-003/26C

H01Q-025/00

US Patent Class :

ORIGINAL (O) : 342373000; CROSS-REFERENCE (X) : 370339000
455562100

Document Type :

Corresponding document

Citations :

US5548813; US5596329; US5734345; US5754139; US5815116;
EP0595247; WO9409568; WO9509490; WO9629836

Simon C. Swales, et al., "The Performance Enhancement of Multibeam Adaptive Base-Station Antennas For Cellular Land Mobile Radio Systems", IEEE Transactions on Vehicular Technology, vol. 39, No. 1, Feb. 1990, pp. 56-67.

Mitsuhiko Mizuno, et al., Electronics & Communications in Japan, vol. 77,

No. 2, pp. 48-58, Feb. 02, 1994, "Application of Adaptive Array Antennas to Radio Communications".

Publication Stage :

(A) United States patent

Abstract :

Features of an adaptive antenna are a controlling portion 11 as a method for detecting the communication amount of each beam and an antenna controlling portion 7 as a controlling method for controlling the pattern of each beam corresponding to information of the detected communication amount. In particular, an exciting weight of each antenna element is controlled corresponding to the detected communication amount and thereby the pattern of each beam is controlled. Thus, the communication amounts of individual beams can be flexibly well-balanced. Consequently, the communication capacity of the base station can be effectively used.

1/1 LGST - ©EPO

Patent Number :

US5936577 A 19990810 [US5936577]

Application Number :

US95366697 19971017 [1997US-0953666]

Action Taken :

20010410 US/CC-A
CERTIFICATE OF CORRECTION

20020115 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20010809

Update Code :

2003-22

1/1 CRXX - ©CLAIMS/RRX

Patent Number :

5,936,577 A 19990810 [US5936577]

Patent Assignee :

Toshiba Corp JP

Actions :

20010410 CERTIFICATE OF CORRECTION

20010809 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20020115

REISSUE REQUEST NUMBER: 09/924501

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3662

Reissue Patent Number:

Query/Command : FILE INPADOC

1 / 1 INPADOC - ©INPADOC

Patent Number :

US 5936577 A 19990810 [US5936577]

Title :

ADAPTIVE ANTENNA

Inventor(s) :

SHOKI HIROKI [JP]; MUKAI MANABU [JP]; YOKOI TOKIHIKO [JP]

Patent Assignee (Words) :

TOKYO SHIBAURA ELECTRIC CO [JP]

Application Details :

US 953666/97-A 19971017 [1997US-0953666]

Priority Details :

JP 276249/96-A 19961018 [1996JP-0276249]

Intl. Patent Class. :

H01Q-003/22; H04Q-007/00

1 / 1 LGST - ©EPO

Patent Number :

US5936577 A 19990810 [US5936577]

Application Number :

US95366697 19971017 [1997US-0953666]

Action Taken :

20010410 US/CC-A
CERTIFICATE OF CORRECTION

20020115 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20010809

Update Code :

2003-22